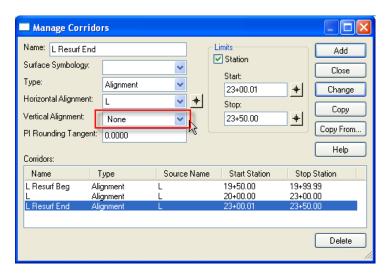
### 9\_1 Transitioning From Existing and To Existing

### **Question:**

I want to transition the first and last 50' from and to existing roadway condition. How do I accomplish this with Roadway Designer?

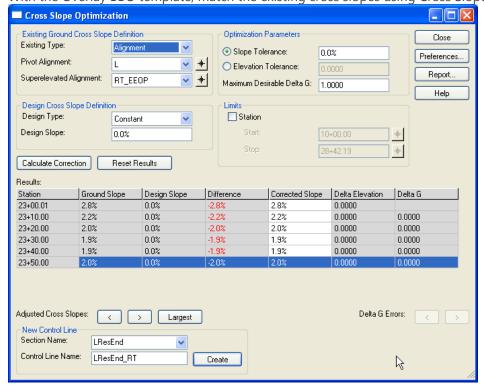
#### **Answer:**

Under Manage Corridors, separate the three corridors. Note the beginning and ending transition to existing corridors do not require a vertical alignment.

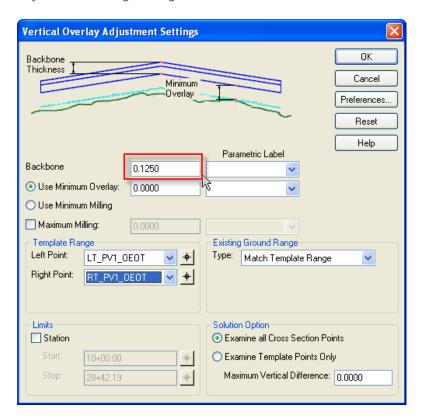


Modeling Transition to Existing (L Resurf End)

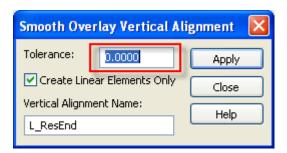
With the Overlay BBO template, match the existing cross slopes using Cross Slope Optimization (CSO).



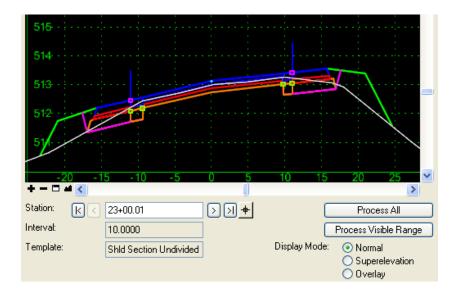
Overlay the existing pavement by keying in the backbone thickness (overlay depth) in the Vertical Adjustment Settings dialog box.



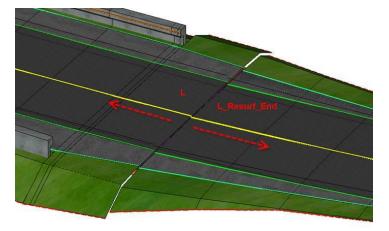
Save and apply the resurfacing/overlay grade to the corridor. Note, to make the best-fit vertical profile (L ResEnd) the same as the bottom envelope (critical minimum profile), Tolerance should be set zero.



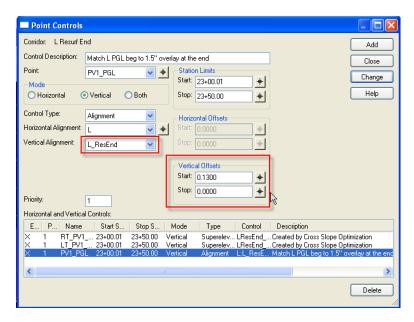
Switch the overlay template with the normal roadway template. As far as 50' cross sections as required by legacy Criteria is concern, the transition to existing process is complete. The sections have exactly a 1.5" overlay and the existing cross slopes are matched.



However, to truly fix the design flaws not as apparent with legacy Criteria, both the profile and the superelevation must be smoothed out during the "hand-off" sections.

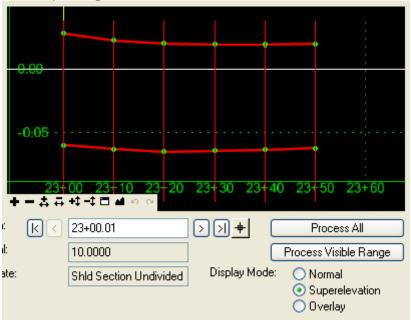


Use point control to raise the grade of L\_ResEnd slightly to match the L corridor and zero it out to the end of the project with a 1.5" overlay.

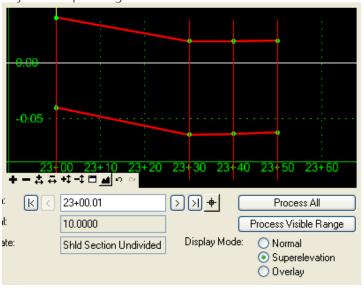


Transition the proposed super to the existing cross slopes.

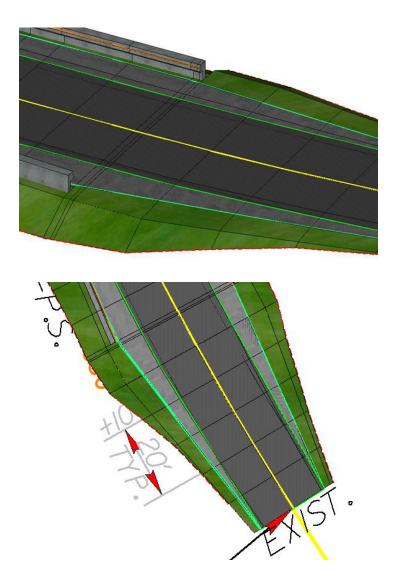
# **Initial Super Diagram**



# Adjusted Super Diagram



Now the hand-off sections appear seamless.



We will make this an exercise to practice on.